

Cyber Security MASTER



ROLASOFT PROFESSIONAL COMPUTER & IT
COURSES VERSION 2.0 LATEST

CyberSecurity and Information Assurance(Top-Up)

*Become a job-ready CyberSecurity and
Information Assurance in two (2) years!*

Benefits of Studying CyberSecurity & Information Assurance with RolaSoft

✓ 1. Industry-Relevant Curriculum

Stay ahead with a syllabus designed by industry experts, focused on real-world scenario.

✓ 2. Hands-On Training

Learn by doing — build real-time projects and gain practical cybersecurity experience.

✓ 3. Experienced Instructors

Gain insights from certified professionals and senior cybersecurity expert with years of teaching and industry experience.

✓ 4. Placement Assistance

Access job support services including resume building, mock interviews, and direct placement opportunities with partner companies.

✓ 5. Flexible Learning Modes

Choose between: **Online**, **Offline (at our center)**, or **Hybrid Classes**

Benefits of Studying CyberSecurity & Information Assurance with RolaSoft

✓ 6. Mini & Major Projects

Work on individual and group projects to strengthen your portfolio and impress future employers.

✓ 7. Certification Upon Completion

Earn a **Professional Diploma** from RolaSoft Technologies, recognized by IT recruiters and employers.

✓ 8. Small Batch Size

Personalized attention and better interaction in small groups for an enhanced learning experience.

✓ 9. Affordable Fees & Installment Plans

Top-tier training at a reasonable cost, with flexible payment options.

✓ 10. Career-Oriented Skills You'll Gain at RolaSoft Technologies

RolaSoft ensures you're job-ready with the right tech stack and practical knowledge.

CyberSecurity & Information Assurance (Top-Up) Course Details



Duration

Two (2) Years (6 Semesters-4 Months Per Semester) - Full-Time Program



Schedule

Weekdays / Weekends



Learning Modes

Online, Offline (at our center), or Hybrid Classes



Start Date

January, April, July and October — enroll now!



Eligibility

No prior experience required

CyberSecurity & Information Assurance (Top-Up) Prerequisites

While not always required, having the following will give students a head start:

- ✓ Basic understanding of computers and operating systems (Windows/Linux)
- ✓ Familiarity with internet usage and common applications (browsers, email, cloud apps)
- ✓ Basic typing and file management skills
- ✓ Logical reasoning and analytical thinking

Two-Year CyberSecurity & Information Assurance Program – Program Details

Program Overview

The **CyberSecurity and Information Assurance** course at ***Rolasoft Technologies*** is designed to provide students with the essential knowledge, skills, and practical experience needed to safeguard digital environments.

Over the course of two years, students will be introduced to the critical concepts, tools, and methodologies required to protect systems, networks, and data from security threats. The program emphasizes both theoretical understanding and hands-on practical training, preparing students for various cybersecurity roles.

Who Should Take This CyberSecurity & Information Assurance Program(Top-Up)?

Who Should Take This CyberSecurity & Information Assurance Program?

- ✓ Aspiring cybersecurity professionals
- ✓ IT professionals looking to specialize in cybersecurity
- ✓ Network administrators and system engineers
- ✓ Ethical hackers, security analysts, and forensic investigators
- ✓ Business owners seeking to secure their digital assets

Year 1 Curriculum

Semester 1: Introduction to IT and Cybersecurity

- ✓ Introduction to Information Technology
- ✓ Fundamentals of Networking
- ✓ Overview of Cybersecurity
- ✓ Computer Hardware & Operating Systems (Windows/Linux)
- ✓ Communication Skills for IT Professionals

Year 1 Curriculum

✓ Lab Work

(Setting up OS environments, Network topology simulation using Packet Tracer, Introductory threat simulations)

✓ Skills Gained

(IT systems navigation, Network protocol basics, OS-level security settings)

✓ Qualification Awarded : Certificate in Cybersecurity and Information Assurance (Level 1)

Year 1 Curriculum

Semester 2: Network & System Security

- ✓ Network Security Concepts
- ✓ Server Configuration (Linux and Windows)
- ✓ Firewalls, VPNs, and IDS/IPS
- ✓ Basics of Scripting (Python or Bash)

Year 1 Curriculum

✓ Lab Work

(Network Hardening & Access Controls)

✓ Skills Gained

(Secure server setup, User and group policy management, Writing simple automation scripts)

✓ Certifications Aligned

(CompTIA Network+ (optional))

✓ Qualification Awarded : Certificate in Cybersecurity and Information Assurance (Level 2)

Year 1 Curriculum

Semester 3: Ethical Hacking & Offensive Security

- ✓ Ethical Hacking Tools and Techniques
- ✓ Web Application Security (OWASP Top 10)
- ✓ Wireless Network Exploits
- ✓ Penetration Testing Methodologies

Year 1 Curriculum

✓ Lab Work

(Offensive Security using Kali Linux)

✓ Skills Gained

(Performing basic penetration tests, Vulnerability scanning, Exploitation and report writing)

✓ Certifications Aligned

(EC-Council CEH (foundation))

✓ Qualification Awarded : Ordinary Diploma in Cybersecurity and Information Assurance

Year 2 Curriculum

Semester 4: Cyber Law, Risk & Compliance

- ✓ Cyber Law & Digital Ethics
- ✓ Risk Assessment & Management
- ✓ Security Policies and Standards (ISO 27001, NIST)
- ✓ Business Continuity & Disaster Recovery Planning

Year 2 Curriculum

✓ Lab Work

(Creating Security Policies and Risk Matrices)

✓ Skills Gained

(Understanding legal and regulatory frameworks, Building security documentation, Auditing IT environments)

✓ Qualification Awarded : Advanced Diploma in Cybersecurity and Information Assurance

Year 2 Curriculum

Semester 5: Digital Forensics & Incident Response

- ✓ Introduction to Digital Forensics
- ✓ Incident Response Procedures
- ✓ Malware Analysis Fundamentals
- ✓ Security Operations Center (SOC) Functions

Year 2 Curriculum

✓ Lab Work

(Evidence Collection and Malware Simulation)

✓ Skills Gained

(Investigating security breaches, Analyzing logs and attack patterns, Drafting forensic and incident response reports)

✓ Certifications Aligned

(CompTIA Security+, CYSA+ (optional))

✓ Qualification Awarded : Professional Diploma in Cybersecurity and Information Assurance

Year 2 Curriculum

Semester 6: Capstone Project & Industry Preparation

- ✓ Final Capstone Project (Group/Individual)
- ✓ Industry Internship / Case Study (if applicable)
- ✓ Resume & Portfolio Development
- ✓ Mock Interviews & Career Readiness

Year 2 Curriculum

✓ **Capstone Topics May Include:**

(Secure system or network architecture design, Penetration testing reports for a simulated business, Forensic investigation of a cyber incident)

✓ **Skills Gained**

(Real-world project experience, Technical documentation and presentations, Interview and soft skills)

✓ **Certifications Aligned**

(Cybersecurity Certification Review)

✓ **Qualification Awarded : Higher Diploma in Cybersecurity and Information Assurance**

Tools & Technologies Used

Tools & Technologies Used for CyberSecurity & Information Assurance Course are:

- ✓ Basic network design, IP addressing, OS configuration
- ✓ Wireshark, VirtualBox, Packet Tracer
- ✓ Cisco IOS, OpenVPN, Snort
- ✓ System hardening, configuring access controls
- ✓ Kali Linux, Metasploit, Burp Suite, Nmap, Aircrack-ng
- ✓ Simulated attacks on virtual environments, And Many More

Final Capstone Project (End of Year 2)

Students will complete an **industry-level project** in CyberSecurity & Information Assurance :

- ☒ Final Capstone Project (Group/Individual)

CyberSecurity & Information Assurance Learning Outcomes

By the end of this course, students will be able to:

- ✓ Gain proficiency in various operating systems and network security.
- ✓ Develop a deep understanding of security protocols, encryption, and ethical hacking techniques.
- ✓ Learn to identify vulnerabilities and implement strategies for securing digital infrastructure.
- ✓ Hands-on experience with real-world cybersecurity tools and technologies.
- ✓ Preparation for key cybersecurity certifications, enhancing employability.

Certifications Obtain

Upon successful completion, students will receive a **Professional Diploma in CyberSecurity and Information Assurance** from Rolasoft Technologies.

Higher Diploma in CyberSecurity & Information Assurance

The program also prepares students for industry certifications such as:

- ✓ Certified Ethical Hacker (CEH)
- ✓ CompTIA Security+ / CySA+
- ✓ Certified Information Systems Security Professional (CISSP)
- ✓ And Many More ...

CyberSecurity & Information Assurance Career Opportunities

Graduates can pursue careers as:

- ✓ Cybersecurity Analyst / SOC Analyst
- ✓ Penetration Tester / Ethical Hacker
- ✓ Digital Forensics Investigator
- ✓ Security Consultant / Risk Assessor
- ✓ Network Security Engineer
- ✓ Incident Response Specialist

Rolasoft Technologies Services

Rolasoft Technologies – Services Offered

✓ **SOFTWARE DEVELOPMENT COMPANY**

(MOBILE APPLICATION, WEB APPLICATION, DESKTOP APPLICATION, CUSTOMIZED APPLICATION, E-COMMERCE WEBSITE)

✓ **PROFESSIONAL COMPUTER AND IT EDUCATION**

(TOP-UP PROGRAMS, DIPLOMA PROGRAMS, CERTIFICATE PROGRAMS, TECH @ SCHOOL, CORPORATE PROGRAMS, SIWES PROGRAMS, CUSTOMIZED PROGRAMS)

✓ **DIGITAL ADVERTISING AND BUSINESS BRANDING**

(SOCIAL MEDIA MARKETING, EMAIL MARKETING, CONTENT MARKETING, WEBSITE SEO, BRANDED CLOTHING, STICKERS AND TAG, CUSTOM BRANDING, AND MANY MORE)

✓ **INTERNATIONAL UNIVERSITY ADMISSION PROCESSING**

(AMERICA, UK, CANADA, EUROPE, AFRICA, AND MANY MORE)

Contact & Registration

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**Enroll Today & Start Your CyberSecurity & Information Assurance
Journey!**

Code your future with CyberSecurity & Information Assurance.